



Form 1449 (Modified)	Atty Docket No. SRI1P044/US-4390-2	Application No.: 10/059,033
Information Disclosure Statement By Applicant	Applicant: Pelrine, et al.	
(Use Several Sheets if Necessary)	Filing Date 01/29/02	Group 2834

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
TMB	A1	5,977,685	11/02/99	Kurita, et al.			06/03/96
TMB	A2	6,060,811	05/09/00	Fox, et al.			07/25/97
TMB	A3	6,184,608	02/06/01	Cabuz, et al.			12/29/98
TMB	A4	6,249,076	06/19/01	Madden, et al.			04/14/99
TMB	A5	4,885,783	12/05/89	Whitehead, et al.			04/10/87
TMB	A6	5,788,468	08/04/98	Dewa, et al.			11/03/94
TMB	A7	6,108,275	08/22/00	Hughes, et al.			12/16/97
TMB	A8	6,333,595B1	12/25/01	Horikawa, et al.			02/16/99
TMB	A9	6,140,131	10/31/00	Sunakawa, et al.			09/24/98
TMB	A10	6,201,398B1	03/13/01	Takada			02/06/97
TMB	A11	5,591,986	01/07/97	Niigaki, et al.			09/02/94
TMB	A12	5,744,908	04/28/98	Kyushima			03/10/97
TMB	A13	6,334,673B1	01/01/02	Kitahara, et al.			06/02/99
TMB	A14	5,883,466	03/16/99	Suyama et al.			06/14/97
TMB	A15	6,097,821	08/01/00	Yokoyama, et al.			11/25/97
TMB	A16	6,055,859	05/02/00	Kozuka et al.			09/26/97
TMB	A17	6,252,221B1	06/26/01	Kaneko, et al.			06/21/99
TMB	A18	6,075,504	06/13/00	Stoller			03/19/93
TMB	A19	6,037,707	03/14/00	Gailus, et al.			03/03/98
TMB	A20	5,914,901	06/22/99	Gershenheld, et al.			06/22/99
TMB	A21	5,912,499	06/15/99	Diem, et al.			12/22/98

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
TMB	B1	Bar-Cohen, Yoseph, JPL, <i>WorldWide ElectroActive Polymers, EAP (Artificial Muscles) Newsletter</i> , Vol. 3, No.1, June 2001.

Examiner <i>Thomas M. Dougherty</i>	Date Considered <i>3/18/03</i>
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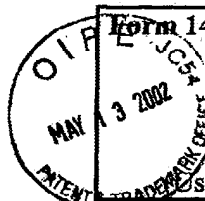
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
trms	C1	Bharti, V., Z.-Y. Cheng, S. Gross, T.-B. Xu, and Q. M. Zhang, "High electrostrictive strain under high mechanical stress in electron-irradiated poly(vinylidene fluoride-trifluoroethylene) copolymer," <i>Appl. Phys. Lett.</i> Vol. 75, 2653-2655 (October 25, 1999).
trms	C2	Bharti, V., H. S. Xu, G. Shanthi, and Q. M. Zhang, "Polarization and Structural Properties of High Energy Electron Irradiated Poly(vinylidene fluoride-trifluoroethylene) Copolymer Films," to be published in <i>J. Appl. Phys.</i> (2000).
trms	C3	Calvert, P. and Z. Liu, "Electrically stimulated bilayer hydrogels as muscles," Proceedings of the SPIE International Symposium on Smart Structures and Materials: Electro-Active Polymer Actuators and Devices, March 1-2, 1999, Newport Beach, California, USA, pp. 236-241.
trms	C4	Kornbluh, R., Pelrine, R., Eckeric, J., Joseph, J., "Electrostrictive Polymer Artificial Muscle Actuators", IEEE International Conference on Robotics and Automation, Leuven, Belgium, 1998
trms	C5	Kornbluh, R., R. Pelrine, Jose Joseph, Richard Heydt, Qibing Pei, Seiki Chiba, 1999. "High-Field Electrostriction Of Elastomeric Polymer Dielectrics For Actuation", Proceedings of the SPIE International Symposium on Smart Structures and Materials: Electro-Active Polymer Actuators and Devices, March 1-2, 1999, Newport Beach, California, USA. pp. 149-161.
trms	C6	Kornbluh, R., R. Pelrine, Q. Pei, S. Oh, and J. Joseph, 2000. "Ultrahigh Strain Response of Field-Actuated Elastomeric Polymers," Proceedings of the 7th SPIE Symposium on Smart Structures and Materials-Electroactive Polymers and Devices (EAPAD) Conference, March 6-8, 2000, Newport Beach, California, USA, pp. 51-64.
trms	C7	Kornbluh, R., Pelrine, R. Joseph, J., Pei, Q. and Chiba, S., "Ultra-High Strain Response of Elastomeric Polymer Dielectrics", Proc. Materials Res. Soc., Fall meeting, Boston, MA, pages 1-12, December 1999
trms	C8	Liu, Y., T. Zeng, Y.X. Wang, H. Yu, and R. Claus, "Self-Assembled Flexible Electrodes on Electroactive Polymer Actuators," Proceedings of the SPIE International Symposium on Smart Structures and Materials: Electro-Active Polymer Actuators and Devices, March 1-2, 1999, Newport Beach, California, USA., pp. 284-288.
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	3/18/02	

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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
<i>Emp</i>	D1	Liu, C., Y. Bar-Cohen, and S. Leary, "Electro-statically stricted polymers (ESSP)," Proceedings of the SPIE International Symposium on Smart Structures and Materials: Electro-Active Polymer Actuators and Devices, March 1-2, 1999, Newport Beach, California, USA., pp. 186-190.
<i>mp</i>	D2	Pelrine <i>et al.</i> , "Electroactive Polymer Electrodes", U.S. Patent Application No. 09/619,843, filed July 20, 2000, 54 pages
<i>mp</i>	D3	Pelrine, R., R. Kornbluh, and J. Joseph, "Electrostriction of Polymer Dielectrics with Compliant Electrodes as a Means of Actuation," <i>Sensors and Actuators A: Physical</i> , Vol. 64, 1998, pp.77-85.
<i>mp</i>	D4	Pelrine, R., R. Kornbluh, J. Joseph, and S. Chiba, "Electrostriction of Polymer Films for Microactuators," <i>Proc. IEEE Tenth Annual International Workshop on Micro Electro Mechanical Systems</i> , Nagoya, Japan, January 26-30, 1997, pp. 238-243.
<i>mp</i>	D5	Pelrine, R., R. Kornbluh, and J. Joseph, FY 1998 <i>Final Report on Artificial Muscle for Small Robots</i> , ITAD-3482-FR-99-36, SRI International, Menlo Park, California, 1999
<i>mp</i>	D6	Pelrine, R., R. Kornbluh, and J. Joseph, FY 1999 <i>Final Report on Artificial Muscle for Small Robots</i> , ITAD-10162-FR-00-27, SRI International, Menlo Park, California, 2000
<i>mp</i>	D7	Pelrine, R., R. Kornbluh, Q. Pei, and J. Joseph, "High Speed Electrically Actuated Elastomers with Over 100% Strain," <i>Science</i> , Vol. 287, No. 5454, pages 1-21, 2000
<i>mp</i>	D8	Pelrine, R., J. Eckerle, and S. Chiba, "Review of Artificial Muscle Approaches," invited paper, in <i>Proc. Third International Symposium on Micro Machine and Human Science</i> , Nagoya, Japan, October 14-16, 1992
<i>mp</i>	D9	Shahinpoor, M., "Micro-electro-mechanics of Ionic Polymer Gels as Electrically Controllable Artificial Muscles," <i>J. Intelligent Material Systems and Structures</i> , Vol. 6, pp. 307-314, May 1995
<i>mp</i>	D10	Zhang, Q., V. Bharti, and X. Zhao, "Giant Electrostriction and Relaxor Ferroelectric Behavior in Electron-irradiated Poly(vinylidene fluoride-trifluoroethylene) Copolymer," <i>Science</i> , Vol. 280, pp. 2101-2104 (26 June 1998).
Examiner	Date Considered	
<i>Thomas De Angelis</i>	<i>3/16/03</i>	

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